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## Quick Installation

### Item Checklist

- [ V ] The Motherboard
- [ V ] Operation manual
- [ V ] ATA 100/66 IDE cable
- [ V ] Floppy cable
- [ V ] Power Installer CD
- [ V ] 6-Channel Audio (Bracket)

### Optional

IWILL SuperAudio (for SPDIF)  
USB riser kit  
Thermal Sensor for System  
Infrared port cable

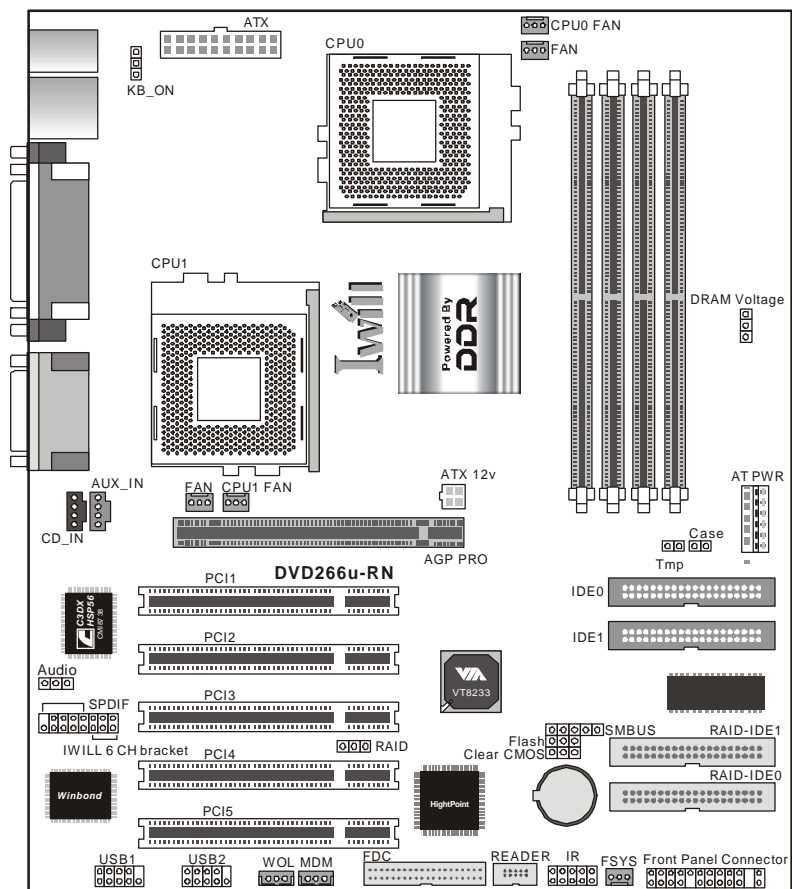
## Before Installation



Users must follow these guidelines to ensure the motherboard is protected during installation.

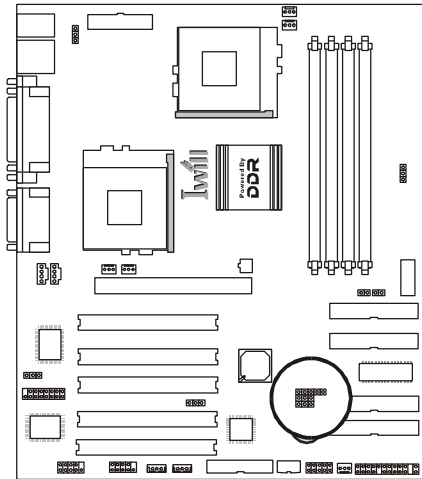
1. Make sure your computer is powered-off .
2. The motherboard, like all other electronic equipment, is sensitive to static. Please take the proper precautions when handling it. If possible, ground yourself by touching a metal table or desk. keep the board in its conductive wrapping until it is configured and ready to be installed in your system.
3. Keep all magnets away from both your hard and floppy disk drives, especially magnetic screwdrivers. Keep both floppy and hard disks apart if disassembled.
4. Keep water and liquids away from your computer and its components.

## Layout



Connectors/ Panel and Jumper Definition
JP1 (Clear CMOS Jumper)
JP6 (Keyboard Power On)
JP7 (DRAM Voltage)
JP8 (Audio Jumper)
JP16 (Flash Protect Jumper)
JP20 (IDE RAID Jumper)
J34A/ J34B (Internal USB1&2 connector)
J37 (ATX Power connector)
J37A (ATX 12V connector)
J37B (AT-PWR connector)
J40 (CPU1 FAN)
J41 (System FAN)
J41A (Temperature Sensor header)
J42 (Case Open)
J43 (Front panel connector)
J45 (Infrared connector)
J46 (Wake-ON-LAN header)
J47 (Wake-ON-Modem)
J48 (SMBus connector)
J53 (AUX_IN connector)
J54 (CD_IN connector)
J64 (SPDIF & 6CH bracket [Optional])
J66 (FAN)
J67 (CPU0 FAN)

## Jumpers/Connectors



☐ ☐ ☐ ☐ ☐ J48  
☐ ☐ ☐ JP16  
☐ ☐ ☐ JP1

**SMBus (J48)**

PIN Assignment  
 1: SMBUSCLK  
 2: NC  
 3: GND  
 4: SMBDATA  
 5: VCC

**Flash (JP16)**

☐ ☐ ☐  
 1 2 3

Control by BIOS  
(Default)

☐ ☐ ☐  
 1 2 3

Protected  
by H/W

☐ ☐ ☐  
 1 2 3

Flashable  
by H/W

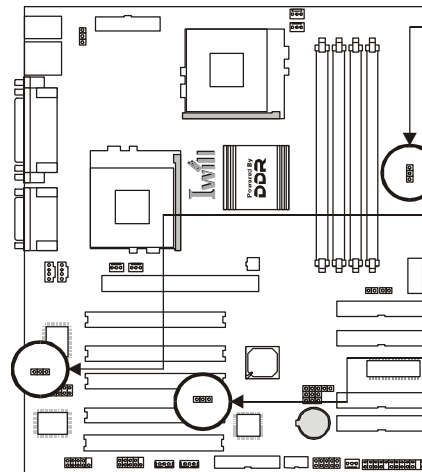
**Clear CMOS (JP1)**

☐ ☐ ☐  
 1 2 3

Normal (Default)

☐ ☐ ☐  
 1 2 3

Clear CMOS

**DRAM Voltage (JP7)**

☐ 1  
☐ 2  
☐ 3

Normal  
(Default)

☐ 1  
☐ 2  
☐ 3

Increase 5%

☐ 1  
☐ 2  
☐ 3

Increase 10%

**Audio (JP8)**

☐ ☐ ☐  
 1 2 3

Enabled  
(Default)

☐ ☐ ☐  
 1 2 3

Disabled

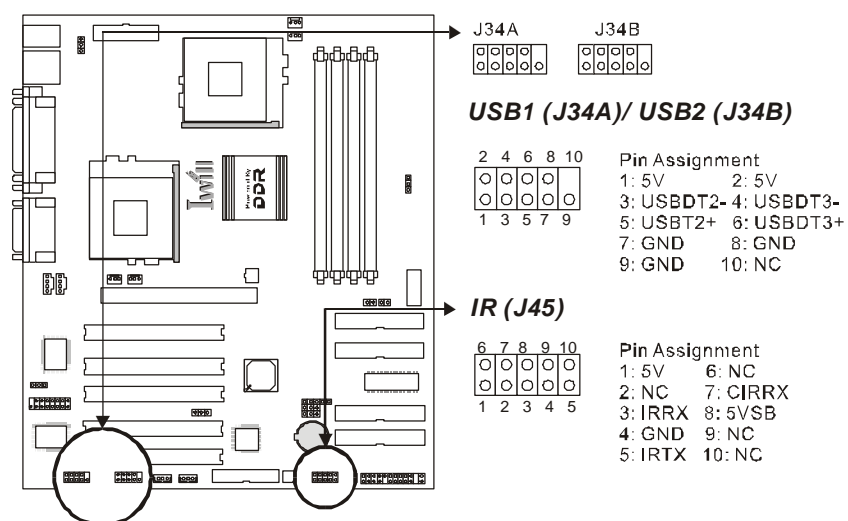
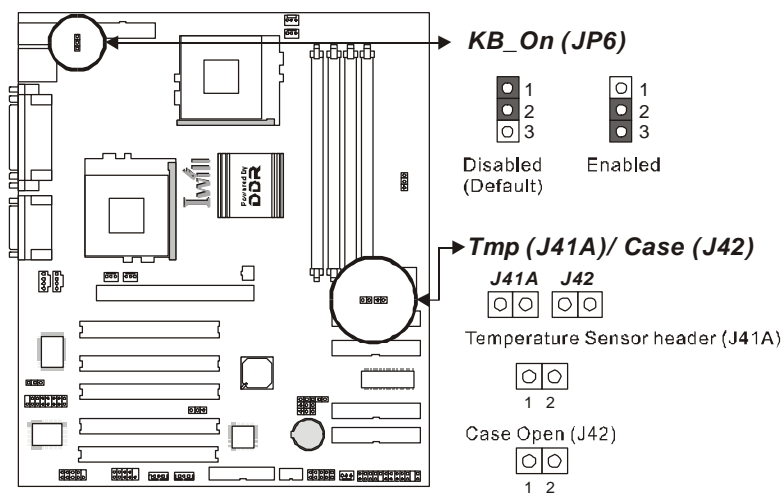
**RAID (JP20) [DVD266u-RN only]**

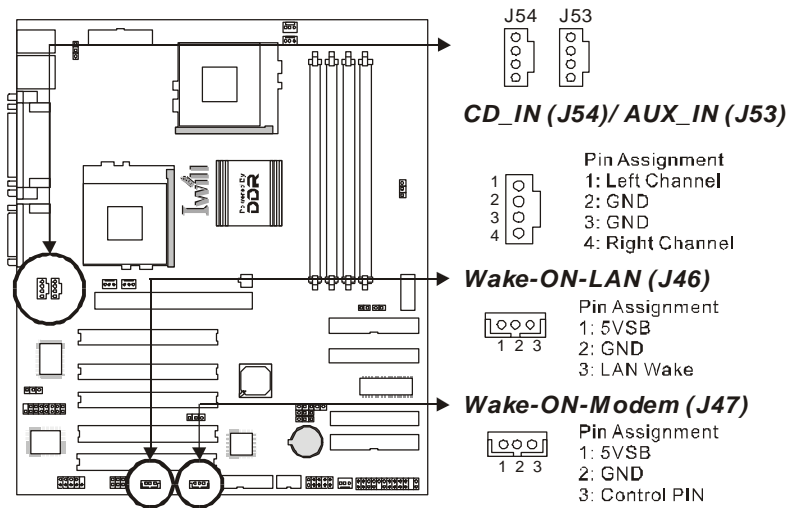
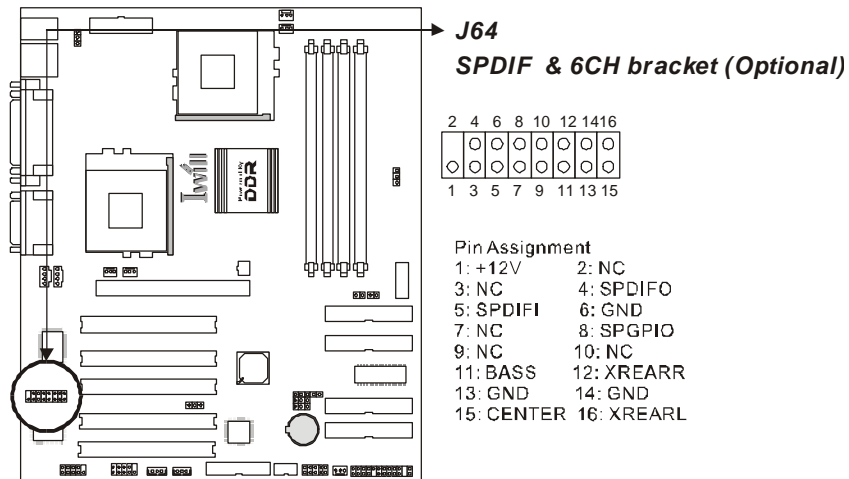
☐ ☐ ☐  
 1 2 3

Enabled  
(Default)

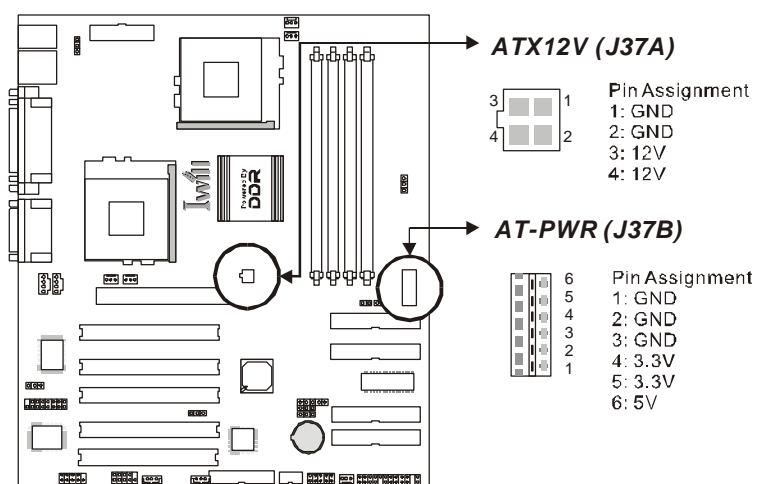
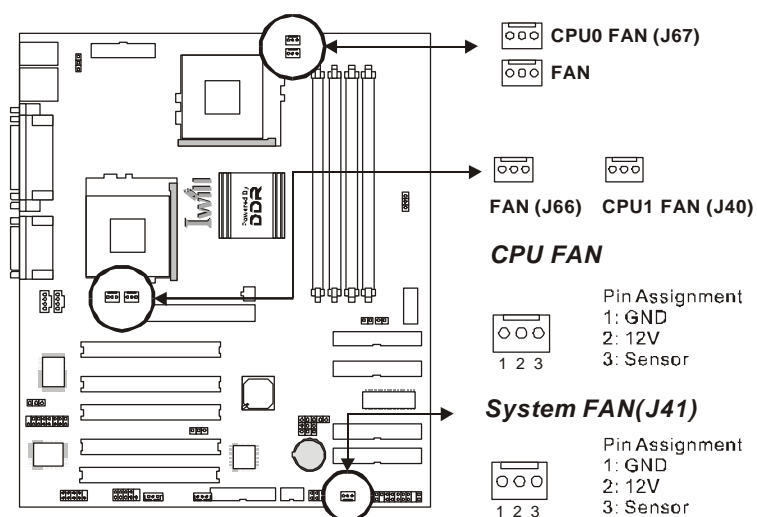
☐ ☐ ☐  
 1 2 3

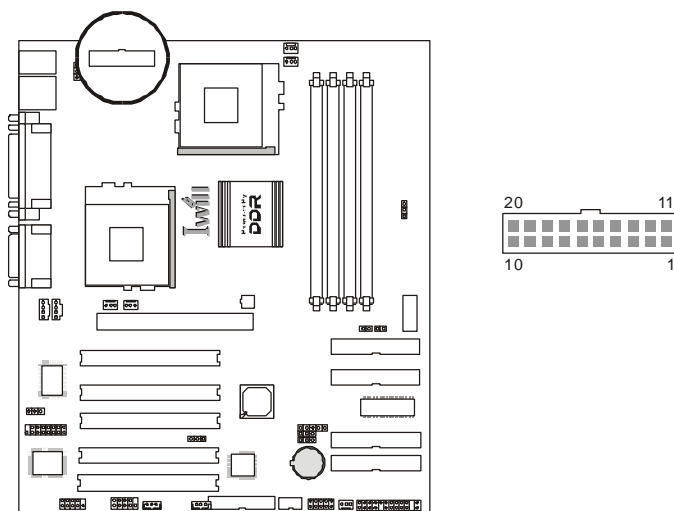
Disabled





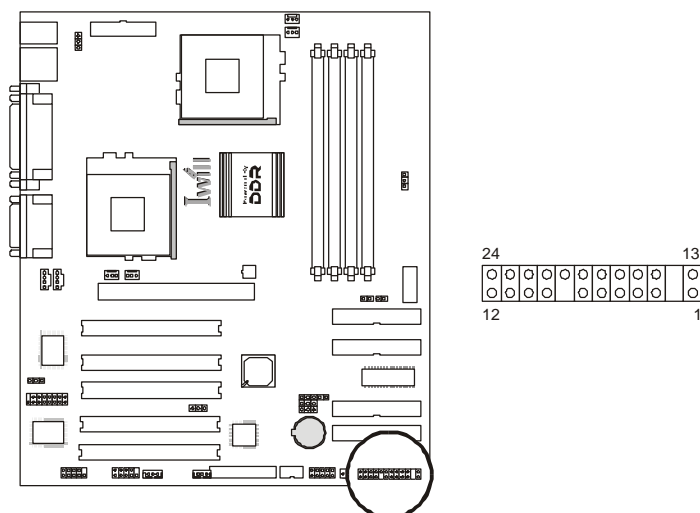




**ATX power connector (J37)**

PIN No.	Definition	PIN No	Definition
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	Ground	13	Ground
4	+5V	14	Power Supply On
5	Ground	15	Ground
6	+5V	16	Ground
7	Ground	17	Ground
8	Power Good	18	-5V
9	+5V	19	+5V
10	+12V	20	+5V

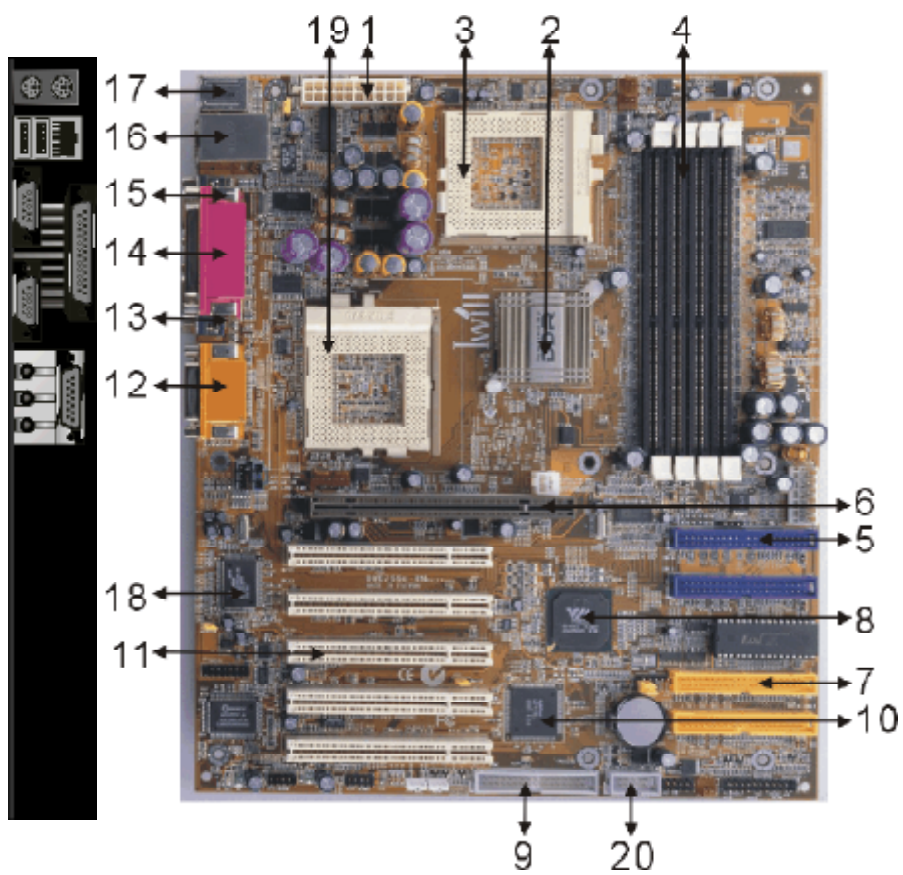
### Front panel connector (J43)



Function	PIN NO.	Definition
PWR_ON (Power/Soft_Off)	1, 13	
ACPI(ACPI LED)	3, 4	PIN 3: Anode PIN 4: Cathode
ALED(IDE LED)	7, 8	PIN 7: Anode PIN 8: Cathode
RST(RESET)	11, 12	PIN 11: RST PIN 12: GND
PLED (System PowerLED)	15, 16, 17	PIN 15: VCC PIN 16: NC PIN 17: GND
KL (Keyboard Lock)	18, 19	PIN 18: KL PIN 19: GND
SPKR(Speaker)	21, 22, 23, 24	PIN 21: VCC PIN 22: NC PIN 23: NC PIN 24: SPEAK (BUZZ)

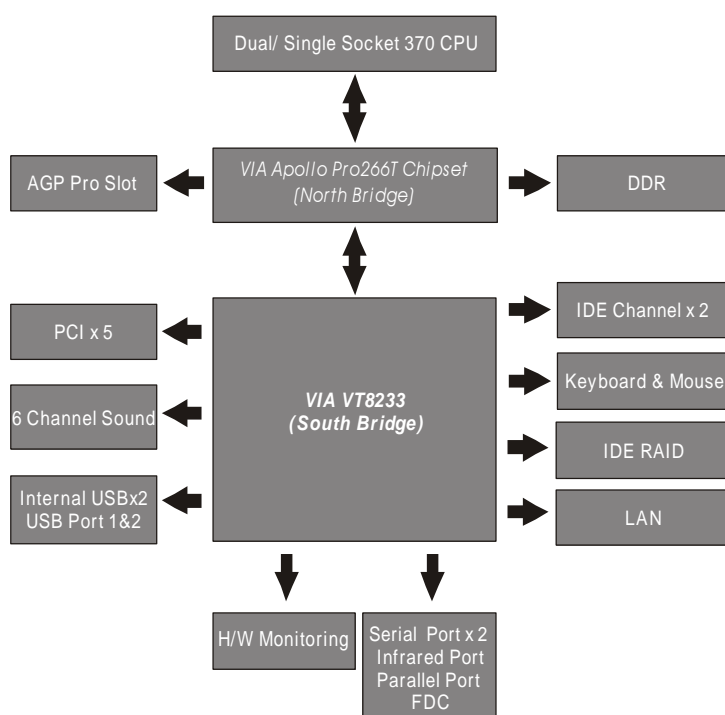
## Features

### Motherboard Components Placement



NO.	Description
1	ATX Power connector
2	VIA Apollo Pro266T
3	CPU 0 Socket
4	System Memory Socket (DDR)
5	On board IDE Channels
6	AGP Pro slot
7	IDE RAID Channels ( DVD266u-RN only)
8	VIA VT8233
9	FDC connector
10	HighPoint IDE RAID Chip (DVD266u-RN only)
11	5 x PCI slots
12	Joystick, Midi Line In / Out, Mic In
13	COM2
14	Parallel connector
15	COM1
16	USB ports/ LAN
17	PS2 Mouse / Keyboard
18	CMI 6 Channel Sound Chip
19	CPU 1 Socket
20	SmartCard Reader

## Block Diagram



## Specifications

### Processor/Socket 370

Supports Socket 370 processors  
Supports 133/100/66MHz FSB  
Supports Dual FC-PGA2 (Tualatin) Pentium III CPU with 512k/256k cache  
Supports Dual Pentium III (Cu-256, FC-PGA) CPU from 500MHz to 1.3GHz and higher

### CPU Frequency / Voltage Selection

Supports Vcore selection from BIOS  
Supports CPU Multiplier selection by BIOS (from 2X to 12X)  
Supports CPU External Frequency selection by BIOS

### Memory

Supports DDR memory  
Supports PC2100/1600 DDR (DDR266/200) SDRAM  
Maximum System Memory up to 4GB

### Graphics

Supports AGP Pro Mode

### General I/O

PCI 2.2 compliance  
Supports 32-bit/33MHz PCI interface  
Supports UDMA 100/66/33  
Supports LPC interface  
Supports Floppy interface  
Supports 16550A UART interface  
Supports ECP/EPP interface  
Supports PS2 interface  
Supports SIR/CIR interface  
Supports USB interface

**RAID Support (DVD266u-RN only)**

Supports ATA/100/66/33 IDE channels  
Supports RAID Level 0/1/0+1  
Supports "SPARE" feature  
Supports Win9X/WinNT/Win2k/Linx

**Sound Support**

Supports 6 Channel Speakers

**Management**

Supports Voltage monitoring  
Supports Fan control signal  
Supports Temperature sensor  
Supports Chassis Intrusion  
Supports Power on by LAN/ Modem/ PS2 Keyboard, Mouse/ RTC/ PME  
Supports resume by LAN/ Modem/ PS2 Keyboard, Mouse/ RTC/ PME  
Supports BIOS ROM Flash Control  
Supports Manually Assign PCI IRQ

**Expansion Slot**

Four DDR sockets  
One AGP slot  
Five 32bit/ 33MHz Bus Master PCI slots  
Two IDE connectors  
Two IDE RAID connectors  
One FDC connector

**Others**

ATX Form Factor 305mmx260mm



## Hardware Setup

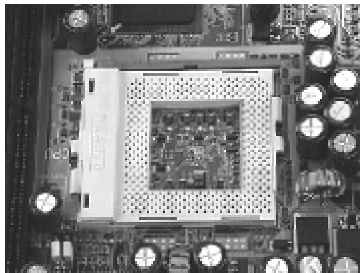
### Install the Processor

The CPU should have a fan attached to prevent overheating. If this is not the case, then purchase a fan before you turn on your system.

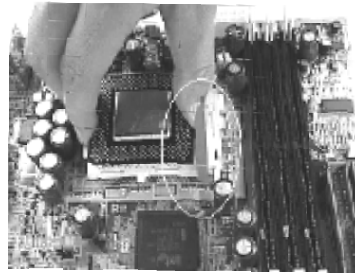
Be sure that there is sufficient air circulation across the processors heatsink by regularly checking that your CPU fan is working. Without sufficient circulation, the processor could overheat and damage both the processor and the motherboard. You may install an auxiliary fan, if necessary.

**Step1:**

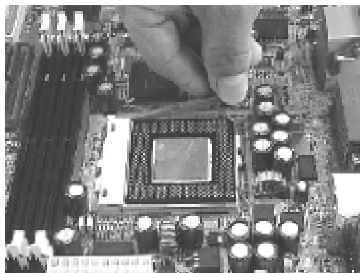
Pull the lever sideways away from the socket. Lever it into a 90-degree angle.

**Step2:**

Locate Pin 1 in the socket and Match it with the white dot. Please insert the CPU.

**Step3:**

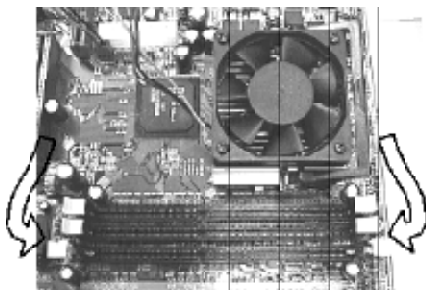
Press the lever down to close the socket.



## Install Memory Modules

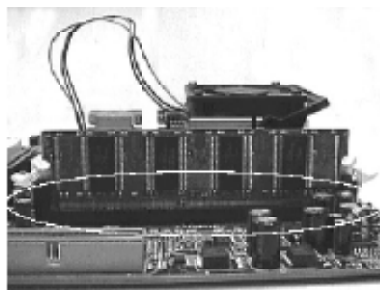
The motherboard has three Memory sockets and supports memory size up to 3GB.

### Step1:



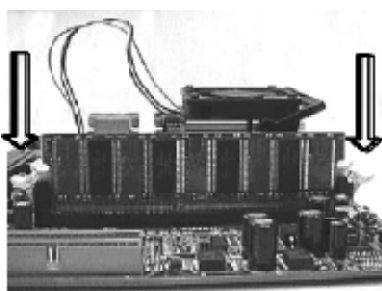
Open latches of DIMM socket.

### Step2:



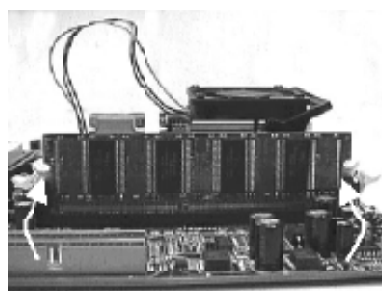
Proofread the DIMM slot to have 2 Notches, so it can fit in one direction.

### Step3:



Please Insert the DIMM memory module into the DIMM slot.

### Step4:

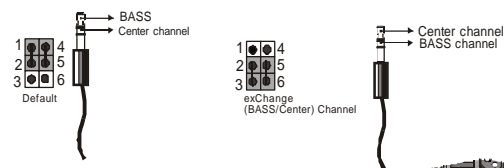


The clip at the side of the DIMM slot will close.

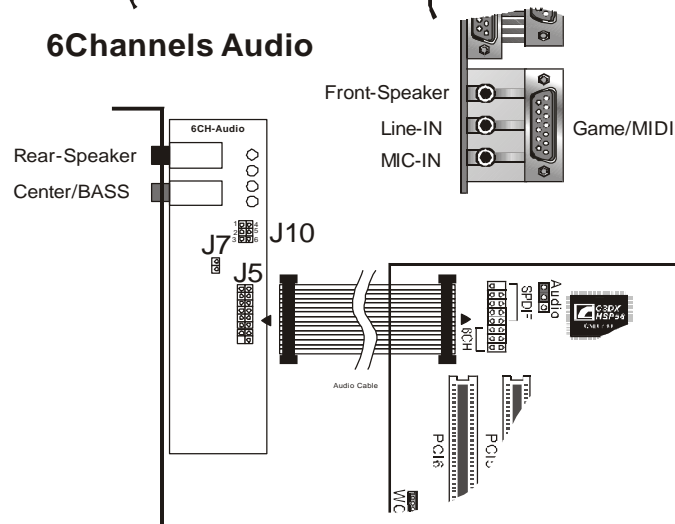
## IWILL 6Channels Audio/ SuperAudio (Optional) Connectors and Jumpers

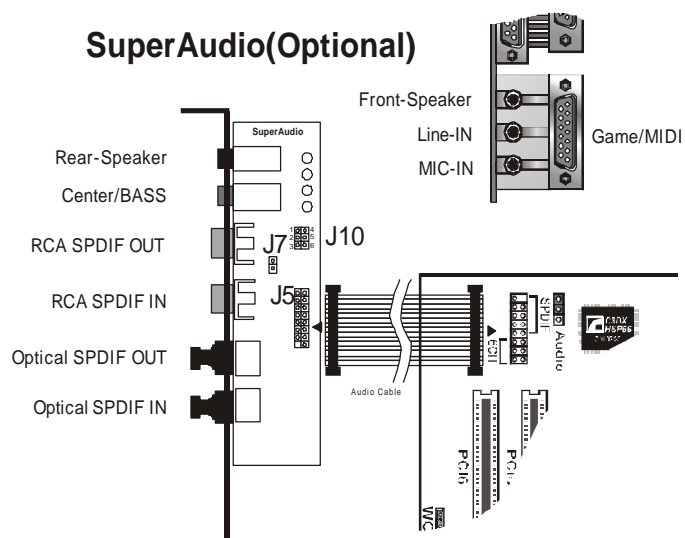
JP5	Audio Extension (Digital I/O) Connector
JP7	CD-SPDIF IN
JP10	BASS/Center Select
Line-IN	LINE-IN Connect to the audio output port of stereo
Mic-IN	Connect to the Microphone (Mono)
Front-Speaker	Output to speakers with the amplifier or earphones or AUDIO-IN of home stereo
Rear-Speaker	Connect to the rear speakers while four/six channel speakers mode is enabled
Center/BASS	Connect to the center speaker and BASS while six channel speakers mode is enabled
GAME/MIDI	Connect to Joystick or devices using MIDI interface
RCA SPDIF IN/OUT	Connects to digital audio devices such as DAT and MiniDisc recorders, via RCA input/output
Optical SPDIF IN/OUT	Connects to digital audio devices such as DAT and MiniDisc recorders, via optical input/output

JP10 function



### 6Channels Audio





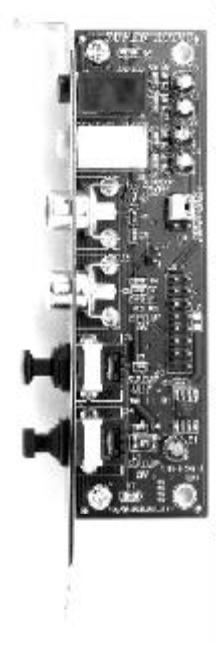
Please remove the cap  
from the optical cable first



### WILL 6Channels Audio



### WILL SuperAudio (Optional)



## ATX Power Supply Connector

### Power on procedures

STEP	Description
1	After all connections are made, close the system case over.
2	Be sure that all switches are off.
3	Connect the power cord into the power supply located on the back of your system case.
4	Connect the power cord a power outlet that is equipped with a surge protector.
5	Many of the power supply support 110V/220V by a switch setting. Switch your power supply to the correct supply voltage.
6	Turn on your system in the following order <ol style="list-style-type: none"><li>The monitor</li><li>The external devices.</li><li>The computer system.</li></ol>



The power LED on the front panel of the chassis will light. After few seconds, the system will then run power-on tests. Some additional messages will appear on the screen during the test. If you do not see anything within 30 seconds from the time you turn on the power, the system may have failed a power-on test. Recheck the jumper settings and connections or call your retailer for assistance.

**Back Panel**

Function	color	Description
PS2/Mouse	Green	This connector can be used to support a PS/2 mouse
PS2/keyboard	Purple	This connector can be used to support a PS/2 keyboard.
Universal Serial Bus	Black	This motherboard has two USB ports, any USB-compatible peripherals and/or hub can be connected into either USB port.
LAN	Black	VIA VT6103 10/100 mbp LAN controller
Serial port	Teal	One serial port is ready for a modem or other serial devices
Parallel port	Burgundy	This connector is used for printers, or other parallel devices.
Joystick, Midi and Audio Port	Gold	You may connect joysticks or game pads to this connector for playing games, or connect MIDI devices for playing / editing professional audio. Line Out (Lime color) can be connected to headphones or powered speakers. Line In (Light Blue color) allows audio sources to be recorded by your computer or played through the Line Out connector. Mic (Pink color) allows microphones to be connected for inputting voice.

## **BIOS Setup**

### **BIOS Setup Upgrade BIOS**

The BIOS can be upgraded from a diskette with the Award Flash utility — AWDFLASH.EXE. The BIOS image file, and update utility are available from IWILL's WEB site: [support.iwill.net](http://support.iwill.net)

### **Enter BIOS setup program**

Power-on the system by either pressing the Power-On button, or by using any of the power-on features provided by the motherboard. Then, press the <Del> key after the Power-On Self Test (POST), and before the scanning of IDE devices. Simply look for the message "Press DEL to enter SETUP" displayed at the bottom of the screen during the boot up process. If the message disappears before you've had a chance to respond, you can restart the system by turning off the system power then turn it on again, or Pressing the "RESET" button on the system case, or

Pressing <Ctrl>, <Alt> and <Del> keys simultaneously.



**Generally, the BIOS default settings have been carefully chosen by IWILL's Engineers provide the absolute maximum performance and reliability. It is very dangerous to change any setting without full understanding. We strongly recommend that you. DO NOT update BIOS if the system works perfectly. DO NOT change any setting unless you fully understand what it means.**



### Using BIOS setup program

↑Up	Move to the previous field
↓Down	Move to the next field
←Left	Move to the field on the left hand side
→Right	Move to the field on the right hand side
<Esc>	Quit from setup program without saving changes,or Exit from current menu page and return to main menu page
<PgUp> or <+>	Select the previous value for a field
<PgDn> or <->	Select the next value for a field
<F1>	General Help
<F2>	Item Help
<F5>	Previous Values
<F6>	Fail-Safe Defaults
<F7>	Optimized Defaults
<F10>	Save the current value and exit setup program

If the system is no longer able to boot after changing the settings, the only way to recover it is to clear the data stored in RTC CMOS. To reset the RTC CMOS data, take the JP1 jumper cap off pins 1-2, place onto pins 2-3, and then place back onto pins 1-2 again. This will return the RTC to the default setting. Then, get into the BIOS setup program , choose Load Fail-Safe Defaults ; Load Optimized Defaults, and select the original manufacturer default settings in your CMOS.

## Main Menu

The main menu allows you to select from several setup pages. Use the arrow keys to select among these pages and press <Enter> key to enter the sub-menu. A brief description of each highlighted selection appears at the bottom of the screen.

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software	
<ul style="list-style-type: none"> <li>▶ Standard CMOS Features</li> <li>▶ Advanced BIOS Features</li> <li>▶ Advanced Chipset Features</li> <li>▶ Integrated Peripherals</li> <li>▶ Power Management Setup</li> <li>▶ PnP/PCI Configurations</li> <li>▶ PC Health Status</li> </ul>	<ul style="list-style-type: none"> <li>▶ IWill Smart Setting</li> <li>Load Fail-Safe Defaults</li> <li>Load Optimized Defaults</li> <li>Set Supervisor Password</li> <li>Set User Password</li> <li>Save &amp; Exit Setup</li> <li>Exit Without Saving</li> </ul>
ESC: Quit F10: Save & Exit Setup	
↑ ↓ → ← : Select Item	
Time, Date Hard Disk Type...	

## Standard CMOS features

CMOS Setup Utility-Copyright(c) 1984-2001 Award Software		
Standard CMOS Features		
Date (mm:dd:yy)	Mon, Jun 18 2001	Item Help
Time (hh:mm:ss)	15:17:48	
▶ IDE Primary Master	[None]	Menu Level ▶
▶ IDE Primary Slave	[None]	
▶ IDE Secondary Master	[None]	Change the day, month, year and century
▶ IDE Secondary Slave	[None]	
Drive A	[1.44M, 3.5i n.]	
Drive B	[None]	
Floppy 3 Mode Support	[Disabled]	
Video	[EGA/VGA]	
Halt On	[All Errors]	
Base Memory	640k	
Extended Memory	xxxxxx	
Total Memory	xxxxxx	

↑ ↓ → ← : Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help  
 F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

**Date**

This field specifies the current date. The date format is <day>, <month>, <date>, and <year>.

**Time**

This field specifies the current time. The time format is <hour>, <minute>, and <second>. The time is calculated based on the 24-hour (military-time) clock.

**IDE Primary Master / Primary Slave / Secondary Master / Secondary Slave**

Press "Enter" to enter next page for detail hard drive setting.

**IDE HDD Auto-Detection**

Auto-Detect the HDDs Capacity, and its parameters, ex: Cylinder, Head and Sector.

**IDE Primary Master / Primary Slave / Secondary Master / Secondary Slave**

This field specifies type of drive that corresponds to the drive installed in your system. If you select User, please specify the correct number of Cylinders, Heads, and Sectors.

Manual	Selecting manual lets you set the remaining fields on this screen. Selects the type of fixed disk.
Auto (Default Value)	BIOS automatically fills in the values for the cylinders, heads and sectors fields.
None	Any Disk Drives are attached

Capacity Auto Display your disk drive size

**Access MODE**

This field specifies the IDE translation mode.

CHS	Specifies traditional CHS addressing mode.
Large	Specifies extended CHS translation mode
LBA	Specifies LBA translation mode.
Auto (Default Value)	BIOS specifies translation method automatically.

**Cylinders**

Set the number of cylinders for this hard disk.

**Heads**

Set the number of read/write heads

**Precomp**

Setting a value of 65535 means no hard disk

**Sectors**

Set the number of sectors per track

**Drive A / Drive B**

This field specifies the traditional type of floppy drives.

None (*Drive B default)	Any Floppy drive is connected
360K, 5.25 in.	Specifies extended CHS translation mode
1.2M, 5.25 in.	A 1.2M floppy drive is connected
720K, 3.5 in.	A 720K floppy drive is connected.
1.44M, 3.5 in. (*Drive A default)	A 1.44M floppy drive is connected
2.88M, 3.5 in.	A 2.88M floppy drive is connected

**Floppy 3 Mode Support**

3 Mode floppy drive is a type of 3.5-inch drive used by NEC PC98 computers. It supports both 1.2M and 1.44M formats using the same drive. This field specifies which drive supports 3 Mode. When a floppy drive is specified to support 3 Mode, the respective drive setting in "Drive A / Drive B" field will be invalid.

Disabled (Default Value)	No 3 Mode drive is connectedd
Drive A	A 3 Mode drive is connected as drive A
Drive B	A 3 Mode drive is connected as drive B
Both	Both drive A and drive B are 3 Mode drives